



# Chemical, Biological, Radiological & Nuclear Defense Information Analysis Center CBRNIAC

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# Mission

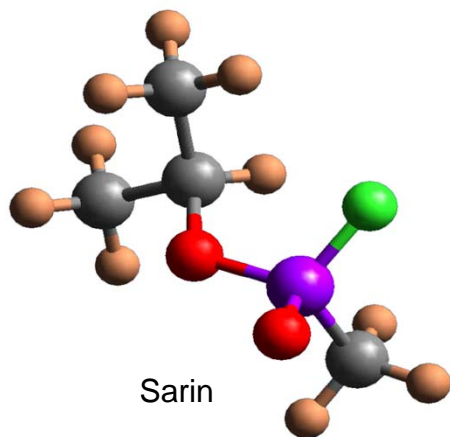
To provide authoritative and responsive solutions by generating, acquiring, processing, analyzing, and disseminating CBRN Defense and Homeland Security scientific and technical information (STI):

- Deliver accurate, authoritative, and timely analysis
- Develop innovative information resources and products
- Integrate high value scientific and engineering solutions
- Facilitate collaboration and interoperability
- Anticipate and meet emerging requirements
- Apply KM principles for high value information creation, analysis, retrieval and dissemination



# Technical Scope

- Chemical and Physical Properties of CW/CBD Materials
- Toxicology
- Warning and Identification
- Medical Effects and Treatment
- Treaty Verification
- International Technology, Proliferation and Control
- Individual and Collective Protection
- Chemical Identification
- Environmental Fate and Effects
- Decontamination
- NBC Survivability
- Combat Effectiveness
- Smoke and Obscurants



- Demilitarization
- Analysis of Manufacturing Processes for NBC Systems
- Defense Conversion & Dual Use Technology Transfer
- Domestic Preparedness / Homeland Security
- Force Protection
- Counterterrorism
- Counterproliferation
- Toxic Industrial Chemicals/Materials (TICs/TIMs)
- Radiological and Nuclear Defense



# Operations

- Edgewood Area, Aberdeen Proving Ground, MD
- Washington, D.C.
- Jacksonville, NC
- San Antonio, TX
- Natick, MA
- Dugway Proving Ground, UT
- Ft. Leonard Wood, MO

# Capabilities



CBRND/HLS Community

**CBRNIAC**

Core

KMD

TATs

TECHNICAL CAPABILITIES

Operational Capabilities

Personnel

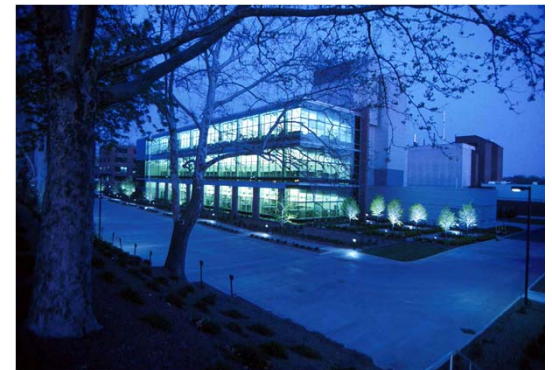
Facilities

Experience

Investment

Partnering with Government

Commitment





# Community Involvement

- Scientific Research Council
  - Provide scientific and technical guidance to the IAC
  - Identify new sources of information and areas for collaboration in CBRND/HLS
  - Highlight technology advances and identify high interest technical areas
  - Provide user feedback on products/services
  - Focus in-depth discussion and analysis of CBRN/HLS STI requirements
  - Provide excellent opportunity for networking and information exchange



# Community Involvement (cont)

- Technical Panels
  - Topics indentified by the SRC
  - In-depth analysis of critical technology challenges with broad community interest
  - Proceedings published as a Critical Review (CR) product
  - Tech Forum I held 19 Jun 08 at APG-EA: Future of Toxicology in CB Defense
  - Tech Forum II 9 Dec 08 in Wash DC: Field Analytics
  - Tech Forum III Jan 09 in Wash DC: CBRND & HLS Knowledge Management & Information Resources



# PEO/PM Awareness/Support

- PM conferences participation
- JPEO CBD Commanders' Conference - CBRNIAC briefing
- JPEO CBD APBI: current and future CBRND S&T and systems requirements
- DTRA CB/ECBC/CBRN JRO engagement
- COCOM NBC conference briefings



# Chemical – Biological Materials Effects Database

- Drivers: May 03 GAO Report and FY05 NDAA – establish CB contamination survivability (CBCS) policies and centralized CBCS database
- Builds on CBRNIAC CDMD and AFRL CWDM databases – ARL SLAD lead
- Provides designers and engineers comprehensive information on effects of CB agents and decontaminants on materials used in defense critical systems
- Launched Dec 06, web-enabled system
- Being expanded/refined based on user feedback



# PEO/PM Technical Inquiry Support

- JPM NBC Contamination Avoidance (CA)
- JPEO Chemical Biological Defense (CBD)
- JPEO CBD/JRAD
- JPM Decontamination
- JPM Individual Protection
- JPM Biological Defense
- JPM NBC Contamination Avoidance



# Products and Tools

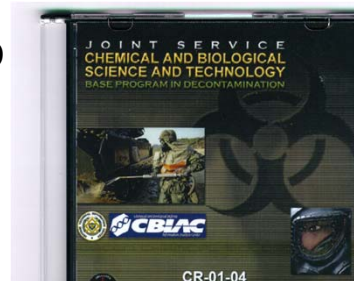
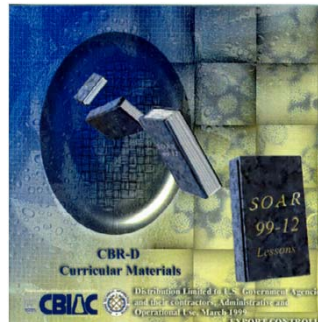
- BACWORTH 2 Encyclopedia Handbook
- Service Life Indicator for Mask Filters Critical Review (CR)
- Databases: e.g. CBME, Agent Fate and Effects
- Aircraft Materials Susceptibility to Chem Agents Databook
- Chemical Defense Materials Databook
- Medical Aspects of Bio Agents CR
- Nanomaterials: New Capabilities for CBD CR

# Technical Area Task Program



- Utilize existing CBRN Defense STI to support TAT program
- Create new STI to meet immediate user requirements
- Ensure TAT STI is incorporated into CBRNIAC CBRN Defense repository
- Leverage TAT STI to support broader user needs/ applications

CBRN Defense Repository



Core

TATs

Promote Use of Existing STI

Create New STI

State-of-the-art reports  
Technical reports  
Handbooks  
Critical reviews

User Community





# Contact Information

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